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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,768	01/26/2004	Timothy M. Swager	M0925.70094US01	9737
75	90 11/19/2004		EXAMINER	
Timothy J. Oyer, Ph.D.			TRUONG, DUC	
Wolf, Greenfiel				
600 Atlantic Av	enue		ART UNIT	PAPER NUMBER
Boston, MA 0	2210		1711	
		,	DATE MAIL ED: 11/10/2007	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	4
	10/764,768	SWAGER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Duc Truong	1711	
The MAILING DATE of this communication		th the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a reon. a reply within the statutory minimum of thirty seriod will apply and will expire SIX (6) MON'statute, cause the application to become AB.	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.		
3) Since this application is in condition for all	lowance except for formal matte	ers, prosecution as to the merits	is
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-45 is/are pending in the application	ation.		
4a) Of the above claim(s) is/are with	hdrawn from consideration.		•
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-45</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	ind/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to	o the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co		•	` '
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a company of the priority document of the application from the International But * See the attached detailed Office action for a company of the application from the International But * See the attached detailed Office action for a company of the priority document of the priority docu	nents have been received. nents have been received in Ap priority documents have been i ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s)	/Mail Date formal Patent Application (PTO-152)	
 Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date 	6) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/764,768

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Yang et al (Tetrahedron Letters or J.Am. Chem. Soc., vol. 120, no46, 1998) or Norvez et al (J. Chem. Soc.Chem Commun., 1990 or Liquid crystals, vol. 14, no.5, 1993 or J. Org. Chem., 1993).

All of the references disclose a polymer or oligomer comprising an iptycene (see Abstract in the references.)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-34 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over the references, as stated above.

The references disclose the polymer or oligomer comprising an iptycence.

The disclosures of the references differs from the instant claims in that they do not disclose the claimed MW, nor the shape persistent molecule containing bridgehead

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atoms, with molecular structures radiating from the bridgehead atoms in three directions nor the length of Van der Waals contact, as in the claims.

However, the references do disclose specific structures which are included in the broad teachings of the claims. In view of this similarity, it would appear to be inherent that the product, a composition of the claimed characteristics, as stated above, could be prepared following the teachings of the references.

Claims 35-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over the references, as stated above.

The references disclose the polymer or oligomer comprising an iptycene and inherently having the claimed characteristics.

The disclosures of the references differ from the instant claims in that they do not disclose the use of said composition to form devices, as in the claims.

However, the references do disclose the use of said components in the formation of chemical sensors, liquid crystals. Therefore, it would have been obvious to one of ordinary skill in the art to select the components from the references within the limitations of the instant claims since they have been shown to be effective in a similar system and thus would have been expected to provide adequate results. There is no showing of unexpected results derived from said selection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUCTRUONG PRIMARY EXAMINER
